



AN ISO 9001 : 2008 COMPANY & NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005

4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-01-31-111 Date: 26/07/2017

Customer : Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.

Address : T Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Construction of Compound Wall to Indira Canteen in Dasarahalli Ward No.15

Agency : Technical Manager (West), KRIDL, No.280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : EE/DD/WO/292/18-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 21-07-17

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/07/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	PCC	M15	19/07/2017	26/07/2017	150.30 X 149.78 X 151.52	22512	8.059	276.9	12.3	12.3
2	PCC	M15	19/07/2017	26/07/2017	149.03 X 149.20 X 151.99	22235	8.467	277.7	12.5	
3	PCC	M15	19/07/2017	26/07/2017	149.30 X 149.97 X 151.26	22390	8.013	270.8	12.1	

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
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Samples will be disposed after 90 days from the date of issue of test certificate

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ಪ್ರಯೋಗಶಾಲೆ, ಉಪ-ವಿಭಾಗ
ಬಾಂಗಲೂರು, ಬಿಜಿಎಂ. ೨೬/೦೭/೨೦೧೭
ಬೆಂಗಳೂರು

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager



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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-01-31-111 **Date:** 16/08/2017
Customer : Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
Address : T Dasarahalli Sub Division, BBMP, Bangalore.
Project Name : Construction of Compound Wall to Indira Canteen in Dasarahalli Ward No.15
Agency : Technical Manager (West), KRIDL, No.280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.
Customer's Reference : EE/DD/WO/292/18-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 21-07-17
Customer ID : PCC
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M15 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/08/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	PCC	M15	19/07/2017	16/08/2017	150.27 X	22677	8.700	391.4	17.3	17.7
					150.90 X					
					150.11					
2	PCC	M15	19/07/2017	16/08/2017	150.33 X	22848	8.776	411.0	18.0	
					151.99 X					
					149.30					
3	PCC	M15	19/07/2017	16/08/2017	151.70 X	22933	8.293	412.7	18.0	
					151.17 X					
					149.67					

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-01-31-111 Date: 26/07/2017
Customer : Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
Address : T Dasarahalli Sub Division, BBMP, Bangalore.
Project Name : Construction of Compound Wall to Indira Canteen in Dasarahalli Ward No.15
Agency : Technical Manager (West), KRIDL, No.280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.
Customer's Reference : EE/DD/WO/292/18-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 21-07-17
Customer ID : PCC
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M15 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 26/07/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	PCC	M15	19/07/2017	26/07/2017	149.25 X 149.59 X 151.97	22327	8.123	271.0	12.1	12.3
2	PCC	M15	19/07/2017	26/07/2017	151.57 X 149.59 X 150.55	22674	8.323	273.1	12.0	
3	PCC	M15	19/07/2017	26/07/2017	151.42 X 149.20 X 151.78	22592	8.579	286.3	12.7	

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ಬಿ.ದಾಸರವಳ್ಳಿ ಉಪ-ವಿಭಾಗ
ಬಾಗಲಗುಂಬೆ, ಜಿ.ಜಾವಾಹರಿ
ಬೆಂಗಳೂರು
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager



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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-01-31-111 **Date:** 16/08/2017
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Address : T Dasarahalli Sub Division, BBMP, Bangalore.
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Agency : Technical Manager (West), KRIDL, No.280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.
Customer's Reference : EE/DD/VO/292/18-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 21-07-17
Customer ID : PCC
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M15 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/08/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	PCC	M15	19/07/2017	16/08/2017	149.68 X 150.94 X 150.23	22593	8.712	401.3	17.8	17.6
2	PCC	M15	19/07/2017	16/08/2017	149.54 X 150.34 X 149.32	22482	8.155	389.2	17.3	
3	PCC	M15	19/07/2017	16/08/2017	150.56 X 150.06 X 150.07	22593	8.387	403.2	17.8	

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Agency : Technical Manager (West), KRIDL, No.280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.
Customer's Reference : EE/DD/WO/292/18-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 21-07-17
Customer ID : PCC
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M15 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 26/07/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	PCC	M15	19/07/2017	26/07/2017	151.05 X	22668	8.013	281.2	12.4	12.4
					150.07 X					
					149.35					
2	PCC	M15	19/07/2017	26/07/2017	149.06 X	22233	8.823	269.7	12.1	
					149.15 X					
					151.69					
3	PCC	M15	19/07/2017	26/07/2017	151.78 X	22980	8.340	291.1	12.7	
					151.41 X					
					150.21					

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Authorized Signatory
Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

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Customer : Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
Address : T Dasarahalli Sub Division, BBMP, Bangalore.
Project Name : Construction of Compound Wall to Indira Canteen in Dasarahalli Ward No.15
Agency : Technical Manager (West), KRIDL, No.280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.
Customer's Reference : EE/DD/WO/292/18-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 21-07-17
Customer ID : PCC
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M15 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/08/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	PCC	M15	19/07/2017	16/08/2017	151.47 X	22758	8.534	389.5	17.1	17.5
					150.26 X					
					151.82					
2	PCC	M15	19/07/2017	16/08/2017	151.33 X	22918	8.606	410.9	17.9	
					151.44 X					
					149.50					
3	PCC	M15	19/07/2017	16/08/2017	149.19 X	22465	8.054	392.2	17.5	
					150.58 X					
					150.14					

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-01-31-111 **Date:** 26/07/2017

Customer : Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.

Address : T Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Construction of Compound Wall to Indira Canteen in Dasarahalli Ward No.15

Agency : Technical Manager (West), KRIDL, No.280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : EE/DD/VO/292/18-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 21-07-17

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/07/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	PCC	M15	19/07/2017	26/07/2017	150.37 X 151.94 X 151.22	22848	8.884	295.9	12.9	12.7
2	PCC	M15	19/07/2017	26/07/2017	151.59 X 149.01 X 151.31	22589	8.394	290.3	12.8	
3	PCC	M15	19/07/2017	26/07/2017	151.01 X 150.47 X 150.10	22723	8.603	282.5	12.4	

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ಬೆಂಗಳೂರು

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager



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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-01-31-111 **Date:** 16/08/2017
Customer : Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
Address : T Dasarahalli Sub Division, BBMP, Bangalore.
Project Name : Construction of Compound Wall to Indira Canteen in Dasarahalli Ward No.15
Agency : Technical Manager (West), KRIDL, No.280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.
Customer's Reference : EE/DD/WO/292/18-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 21-07-17
Customer ID : PCC
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M15 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/08/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	PCC	M15	19/07/2017	16/08/2017	151.12 X 150.39 X 149.62	22726	8.978	393.1	17.3	17.6
2	PCC	M15	19/07/2017	16/08/2017	149.67 X 150.29 X 151.97	22493	8.359	395.7	17.6	
3	PCC	M15	19/07/2017	16/08/2017	150.50 X 150.41 X 150.53	22637	8.005	407.3	18.0	

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 ಜಿ.ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ
 ಬಾಗಲಗುಂಟೆ, ಜಿ.ಬಿ.ಎಂ.ಪಿ
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AN ISO 9001 : 2008 COMPANY & NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005

4, 7TH MAIN MALLESWARAM, BANGALORE -3

To,

Date: 01-02-2019

ASSISTANT EXECUTIVE ENGINEER

T DASARAHALLI SUB DIVISION

BBMP

BANGALORE

Dear Sir,

Sub: M/s. Civil Pro Services for the work of CONSTRUCTION OF COMPOUND WALL TO INDIRA CANTEEN IN DASARAHALLI WARD NO.15

Ref: 1. Work Order No: EE/DD/WO/292/18-19

2. Job code: 015-18-000031

We are herewith forwarding to Technical Manager (West), KRIDL, No.280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010. First and Final Bill duly verified and certified that the work is satisfactory and for a Gross Value of Rs.15,98,084 /- (Rs. Fifteen Lakhs Ninety Eight Thousand and Eighty Four Only).

Thanking you,

Yours faithfully,

For Civil Pro

R. KARTHIK RECHAN

AUTHORIZED SIGNATORY
CIVIL PRO



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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2019-01-31-111 Date: 12-07-17
 Customer : Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
 Address : T Dasarahalli Sub Division, BBMP, Bangalore.
 Project Name : Construction of Compound Wall to Indira Canteen in Dasarahalli Ward No.15
 Agency : Technical Manager (West), KRIDL, No.280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.
 Customer's Reference : EE/DD/WO/292/18-19
 Source of Sample : Sample supplied by Agency
 Sample Condition : Satisfactory
 Date of Receipt : 09-07-17
 Sample Type : Birla Super 53grade
 Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
 IS 4031 (Part 1,2,3,4,5, 6,11):1988
 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
 IS 4031 Part 3, Determination of Soundness, Clause 5, Clause 6
 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
 IS 4031 Part 11, DETERMINATION OF DENSITY , Clause 6

Date of test : 10-07-17

Environmental Conditions during test : Temperature: 26°C
 Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.87	—
2	Fineness by Air permeability method (m ² /kg, Min)	348.6	225m ² /kg, Min
3	Density (gm/cc)	3.12	—
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	135 minutes	Not less than 30 minutes
6	Final Setting time	245 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

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Authorized Signatory
 Quality Manager



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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2019-01-31-111 Date: 07-08-17

Customer : Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.

Address : T Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Construction of Compound Wall to Indira Canteen in Dasarahalli Ward No.15

Agency : Technical Manager (West), KRIDL, No.280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : EE/DD/WO/292/18-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 09-07-17

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 6, Determination of Compressive Strength, Clause 6

Date of test : 10-07-17

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Compressive Strength			
Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm ²	Not less than 27 N/mm ²
2	7 Days	39.0N/mm ²	Not less than 37 N/mm ²
3	28 Days	58.5N/mm ²	Not less than 53 N/mm ²

Note:

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Quality Manager





TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2019-01-31-111 **Date:** 12-07-17
Customer : Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
Address : T Dasarahalli Sub Division, BBMP, Bangalore.
Project Name : Construction of Compound Wall to Indira Canteen in Dasarahalli Ward No.15
Agency : Technical Manager (West), KRIDL, No.280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.
Customer's Reference : EE/DD/WO/292/18-19
Source of Sample : Sample supplied by Agency
Sample condition : Satisfactory
Date of Receipt : 09-07-17
Sample Type : 40mm down size coarse aggregate
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 09-07-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80mm	0	0	0.0	100	100
2	40 mm	215	215	1.4	98.6	90-100
3	20 mm	7455	7670	51.1	48.9	30-70
4	10 mm	4266	11936	79.6	20.4	10-35
5	4.75 mm	2844	14780	98.5	1.5	0-5
6	Pan	220	15000	100.0	0	---

TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2019-01-31-111

Date: 12-07-17

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.3	
3	Specific Gravity	2.64	—
4	Bulk Density(Loose) (Kg/l)	1.41	—
5	Bulk Density(Compacted) (Kg/l)	1.47	—
6	Water Absorption(%)	0.23	—

Note:

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ಬೆಂಗಳೂರು



TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2019-01-31-111 Date: 11-07-17
Customer : Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
Address : T Dasarahalli Sub Division, BBMP, Bangalore.
Project Name : Construction of Compound Wall to Indira Canteen in Dasarahalli Ward No.15
Agency : Technical Manager (West), KRIDL, No.280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.
Customer Reference : EE/DD/WO/292/18-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 09-07-17
Sample Type/ Size : 20mm down size coarse aggregate
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 09-07-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40mm	0	0	0	100	100
2	20 mm	225	225	4.5	95.5	90-100
3	10 mm	2845	3070	61.4	38.6	25-55
4	4.75 mm	1745	4815	96.3	3.7	0-10
5	Pan	185	5000	100	0	—

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2019-01-31-111

Date: 11-07-17

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.1	
3	Specific Gravity	2.68	—
4	Bulk Density(Loose) (Kg/l)	1.43	—
5	Bulk Density(Compacted) (Kg/l)	1.49	—
6	Water Absorption(%)	0.23	—
7	Aggregate crushing Value(%)	22.9	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.7	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

Note:

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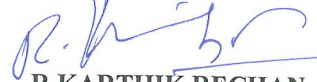
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ಅ.ದಾಸರಹಳ್ಳಿ, ಉಪ-ವಿಭಾಗ

ಪಾಗಲಗುಂಟೆ, ಬಿಜಿಎಂಸಿ

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2019-01-31-111 Date: 11-07-17
Customer : Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
Address : T Dasarahalli Sub Division, BBMP, Bangalore.
Project Name : Construction of Compound Wall to Indira Canteen in Dasarahalli Ward No.15
Agency : Technical Manager (West), KRIDL, No.280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.
Customer's Reference : EE/DD/WO/292/18-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 09-07-17
Sample Type : Fine Aggregate
Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
Date of test : 09-07-17

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result : The tested Sample Conforms to Grading Zone II

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ಬೆಂಗಳೂರು



M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2019-01-31-111

Date: 11-07-17

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	—
2	Specific Gravity	2.59	—
3	Material finer than 75 micron(%)	6.3	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

Note:

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-01-31-111 Date: 26/07/2017
Customer : Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
Address : T Dasarahalli Sub Division, BBMP, Bangalore.
Project Name : Construction of Compound Wall to Indira Canteen in Dasarahalli Ward No.15
Agency : Technical Manager (West), KRIDL, No.280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.
Customer's Reference : EE/DD/VO/292/18-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 21-07-17
Customer ID : PCC
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M15 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/07/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	PCC	M15	19/07/2017	26/07/2017	150.04 X	22430	8.422	271.0	12.1	12.3
					149.50 X					
					151.35					
2	PCC	M15	19/07/2017	26/07/2017	151.49 X	22685	8.008	278.9	12.3	
					149.75 X					
					149.17					
3	PCC	M15	19/07/2017	26/07/2017	150.75 X	22638	8.515	286.4	12.7	
					150.17 X					
					149.52					

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-01-31-111 **Date:** 16/08/2017
Customer : Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
Address : T Dasarahalli Sub Division, BBMP, Bangalore.
Project Name : Construction of Compound Wall to Indira Canteen in Dasarahalli Ward No.15
Agency : Technical Manager (West), KRIDL, No.280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.
Customer's Reference : EE/DD/WO/292/18-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 21-07-17
Customer ID : PCC
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M15 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 16/08/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	PCC	M15	19/07/2017	16/08/2017	151.21 X	22746	8.439	404.4	17.8	17.5
					150.42 X					
					151.99					
2	PCC	M15	19/07/2017	16/08/2017	150.66 X	22555	8.144	389.3	17.3	
					149.71 X					
					150.16					
3	PCC	M15	19/07/2017	16/08/2017	151.07 X	22878	8.468	401.7	17.6	
					151.44 X					
					150.44					

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